

12/10/2008

United States Patent and Trademark C Address COMMISSIONER FOR PATENTS P.O. Box 5450 Alexandra, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 RATNERPRESTIA P.O. BOX 980 VALLEY FORGE, PA 19482

23122

PAPER NUMBER

2886 DATE MAILED: 12/30/2008

ĺ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
1	10/536.821	05/27/2005	Andrew Doneles Bankhead	AMTH-101US	6629

TITLE OF INVENTION: SURFACE PROFILING APPARATUS

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nenprovisional	NO	\$1510	\$300	50	\$1810	03/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DIE

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Roy 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required), Blocks 1 through 5 should be completed where oppropriate All further correspondence including the Patent, advance orders and notification of montheausce fees will be mailed to the current correspondence address and interfact unless corrected below or directed otherwise in Block 1 be dispersable to the current correspondence in the patent and the pat

mintenance fee notifications	
CUIDIENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)	Note: A certificate of mailing can only be used for domestic mailing: Fee(s) Transmittal. This occurring to carmot be used for any other accompages: Each additional paper, such as an assignment or formal drawin law its own certificate of mailine or transmission.

23122 7590 12/10/2008

RATNERPRESTIA P.O. BOX 980 VALLEY FORGE, PA 19482 Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimale transmitted to the USPTO (571) 273-2885, on the date indicated below

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

				(Date)
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536 821	05/27/2005	Andrew Doneles Bankbead	AMTH-101US	6629

TITLE OF INVENTION: SURFACE PROFILING APPARATUS.

PTOL-85 (Rev 08/07) Approved for use through 08/31/2010.

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/30/2009
EXAM	ENER	ARTUNIT	CLASS-SUBCLASS]		
HANSEN, JO	NATHAN M	2886	356-511000			
I. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563) Change of correspondence address (or Change of Correspondence Address form "FIOSBI 122) attached in the property of the pro			(2) the name of a single treastered attorney or a	3 registered patent attorn vely, is firm (baving as a memb- agent) and the names of u- many or agents. If no nam-	er a 2	

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignce is identified below, no assignce data will appear on the patent. If an assignce is identified below, the document has been filled for recordation as set forth in 37 CFR 3.11. Completion of thus form is NOT a substitute for filling an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignce eategory or categories (will not be printed on the patent) 🔷 Individual 🗖 Corporation or other private group entity 🗖 Governm

4a. The following fee(s) are submitted: 4b. Payment of Fee(s). (Please first reapply any previously paid issue fee shown above) Issue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card Form PTO-2038 is attached

Advance Order - # of Copies The Director is beselvy authorized to charge the sequired fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra ocov of this form) 5. Change in Entity Status (from status indicated above)

a. Applicant claims SMALL ENTITY status. See 37 CFR 1 27 ■ b Applicant is no longer claiming SMALL ENTITY status, See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be a one other than the applicant, a registered attorney or agent, or the assignee or other party in

Authorized Signature Date Typed or printed name Registration No

The effective of all rather is grown by \$1.7 (\$1.11.11.5) in defendance required to draw within a board to depute which is \$1.6 (a) by \$6.100 M jumps of a registration. Confidently, in proceeding \$1.6 (a) and \$1.7 (a) and \$1.7



UNITED STATES PATENT AND TRADEMARK OFFICE

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10/536,821	05/27/2005	Andrew Douglas Bankhead	AMTH-101US	6629

23122 7590 12/30/2008 RATNERPRESTIA

P.O. BOX 980 VALLEY FORGE, PA 19482 AMTH-101US 6629

EXAMINER

HANSEN, JONATHAN M

ART UNIT PAPER NUMBER

2856

DATE MAILED: 12/30/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 308 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 308 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (51)-722-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (57)1-272-4202.

	Application No.	Applicant(s)					
	10/536.821	BANKHEAD, ANDREW DOUGLAS					
Notice of Allowability	Examiner	Art Unit					
	JONATHAN M. HANSEN	2886					
- The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Note of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIO of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to and MPEP 1308.	olication. If not included will be mailed in due course. THIS					
This communication is responsive to the amendment filed	on 08/18/2008.						
 The allowed claim(s) is/are 104,107-123 and 125-127. 							
a) ☑ All b) ☐ Some* c) ☐ None of the:	 Certified copies of the priority documents have been received. 						
 Copies of the certified copies of the priority does International Bureau (PCT Rule 17.2(a)). 	Julients have been received in this i	rational stage application from the					
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONIN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements					
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 							
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.						
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached					
1) hereto or 2) to Paper No./Mail Date							
 (b) including changes required by the attached Examiner's Paper No./Mail Date 	s Amendment / Comment or in the C	ffice action of					
identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in ti	.84(c)) should be written on the drawir he header according to 37 CFR 1.121(c	ngs in the front (not the back) of ii).					
DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT							
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application					
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Dat 						
 Information Disclosure Statements (PTO/SB/08), 	7. Examiner's Amendr						
Paper No./Mail Date 12/10/2008 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	⊠ Examiner's Stateme Other	ent of Reasons for Allowance					
U.S. Palatel and Tradement Office PTOL-37 (Rev. 08-06) No.	efice of Allowability	Part of Paper No /Mail Date 20081217					

Notice of Allowability

Application/Control Number: 10/536,821 Art Unit: 2886

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 12/10/2008 was considered by the examiner. The references disclosed within the IDS fail to read on the allowable subject matter discussed below and in the applicant's arguments. Specifically, the references fail to disclose the set of light intensity data corresponding to a frame of intensity data and the gradient or contrast is determined across a plurality of pixels within said frame of intensity data.

Response to Arguments

Applicant's arguments, filed 08/18/2008, with respect to claims 104, 122, and 126 have been fully considered and are persuasive. The rejection of the claims has been withdrawn.

Allowable Subject Matter

Claims 104, 107-123, 125-127 are allowed.

As to claim 104, 122 and 126, the prior art of record, taken alone or in combination, fails to disclose or render obvious the apparatus further comprising an image enhancer to enhance image data representing one set of light intensity data to be displayed on a display to facilitate the detection by a user of the interference fringes, the image enhancer comprising at least one of: a gradient determiner to determine from a set of light intensity data light intensity gradient data and a modifier to modify the image data to be displayed in accordance with the determined gradient data; or a contrast determiner to determine contrast difference data by comparing the set of light intensity data with a reference set of light intensity data and a modifier to modify the

image data to be displayed in accordance with the determined contrast difference data, in combination with the rest of the limitations of the claim. The set of light intensity data corresponding to a frame of intensity data and the gradient or contrast is determined across a plurality of pixels within said frame of intensity data.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JONATHAN M. HANSEN whose telephone number is (571)270-1736. The examiner can normally be reached on Monday through Friday 9.30AM to 6.00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tarifur Chowdhury can be reached on 571-272-2287. The fax phone number for the organization where this anolication or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael A. Lyons/ Primary Examiner, Art Unit 2877 December 21, 2008

JMH 12/17/2008